

Confusion Icosahedron

by Arya Akhavan (September 2013)

Angles for R.I. = 1.620

28 + 6 girdles = 34 facets

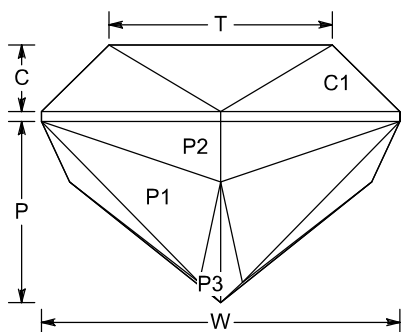
3-fold, mirror-image symmetry

96 index

$L/W = 1.155$ $T/W = 0.623$ $U/W = 0.540$

$P/W = 0.504$ $C/W = 0.185$

$Vol./W^3 = 0.294$



PAVILION

P1 43.00° 11-21-43-53-75-85 Cut to centerpoint.

G1 90.00° 08-24-40-56-72-88 Set stone size.

P2 65.00° 08-24-40-56-72-88 Level girdle.

P3 41.00° 10-22-42-54-74-86 Meet P1, P2

CROWN

C1 44.52° 08-24-40-56-72-88 Set girdle width.

C2 25.00° 96-32-64 Meet G1, C1

T 0.00° Table Meet C1, C2

I've been trying to experiment with regular polyhedra, to determine what kinds of designs will give the highest yield. In this case, I wanted to see if I could take a hemiicosahedron and develop that into the crown of a hexagon. Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes; I prefer green tourmaline. Suggested size = 6-12 mm

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